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Notice of Allowability	Application No.	Applicant(s)
	10/644,132	ANDERSON ET AL.
	Examiner	Art Unit
	Binh C. Tat	2825
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate communications. This application is su	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>12/21/05</u> .		
2. The allowed claim(s) is/are 1,3,4 and 7-15.		
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a MENT of this application.	a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted	
(a) ☐ including changes required by the Notice of Draftsper		(PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_	,
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or i	n the Office action of
Identifying indicia such as the application number (see 37 CFR and each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	e drawings in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/21/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ⊠ Interview Sur Paper No./N 08), 7. ⊠ Examiner's A 8. ⊠ Examiner's S 9. □ Other	ormal Patent Application (PTO-152) mmary (PTO-413), fail Date 05/25/06. mendment/Comment statement of Reasons for Allowance JACK CHIANG JPERVISORY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kim Kanzaki (Reg. No. 37,652) on 05/25/06.

The application has been amended as follow:

Claim 1 line 8, after "criterion is met" insertion –; and further comprising performing timing analysis prior to step (a) to obtain timing information and selecting a set of connections that need to be improved, wherein said incremental placement operates only on said set of connections, said set of connections selected based on deviation of said timing information from a predetermined constraint--.

Claim 2 has been canceled.

Claim 3 line 1, change "claim 2" to --claim 1--.

Claim 4 line 1, change "claim 2" to --claim 1--.

Claim 5 has been canceled.

Claim 6 has been canceled.

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

1. Claims 1, 3, 4, and 7-15 are allowed because the prior art does not teach or suggest a method for placing and routing a design on an integrated circuit, said design having a plurality of objects, said method comprising: (a) performing incremental placement on a routed design; (b) generating a new routed design using incremental routing based on results of said incremental placement; (c) storing said new routed design if its quality is superior to that of said routed design; and repeating said (a), (b), and (c) steps until a predetermined criterion is met; and further comprising performing timing analysis prior to step (a) to obtain timing information and selecting a set of connections that need to be improved, wherein said incremental placement operates only on said set of connections, said set of connections selected based on deviation of

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

said timing information from a predetermined constraint.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Binh C. Tat whose telephone number is 571 272-1908. The

examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Chiang can be reached on 571 272-7483. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh

Patent Examiner

May 25, 2006

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